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Apple II, II+, IIe, IIC: ASCII characters, values & keystrokes

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Security: Everyone

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The following table contains the ASCII codes generated by pressing a key or combination of keys on the Apple II, Apple II Plus, Apple IIe, Apple IIC, and Enhanced Apple IIe. The character names come from the American Standard Code for Interchange of Information. Certain peripherals or programs or functions, such as the BASIC function CHR\$, may require the decimal values; certain peripherals or programs may require the hexadecimal values as well.

The fourth column in the table below is for simple keystrokes or those made with the SHIFT key held down; the fifth and sixth columns are for those made either with the CTRL key held down or with both the SHIFT and CTRL keys held down simultaneously.

NOTE: An asterisk next to keystrokes or character names means that the Apple II and Apple II Plus can't generate that character from its keyboard. The double asterisk indicates a special case.

The comments column defines the non-printing ASCII characters.

Char	Dec	Hex	Keystrokes	Holding down:		Comments
			Regular	CTRL	SHIFT-CTRL	
NUL	00	00		@ **		null character
SOH	01	01		a	A	start of header
STX	02	02		b	B	start transmission
ETX	03	03		c	C	end of text
EOT	04	04		d	D	end of transmission
ENQ	05	05		e	E	enquire
ACK	06	06		f	F	acknowledge
BEL	07	07		g	G	bell
BS	08	08	Left-arrow	h	H	back space
HT	09	09	Tab	i	I	horizontal tab
LF	10	0A	Down-arrow	j	J	line feed
VT	11	0B	Up-arrow	k	K	vertical tab
FF	12	0C		l	L	form feed
CR	13	0D	Return	m	M	carriage return
SO	14	0E		n	N	shift out

SI	15	0F		o	O	shift in
DLE	16	10		p	P	data link escape
DC1	17	11		q	Q	device C 1
DC2	18	12		r	R	device C 2
DC3	19	13		s	S	device C 3
DC4	20	14		t	T	device C 4
NAK	21	15	Right-arrow	u	U	negative acknowledge
SYN	22	16		v	V	synchronous idle
ETB	23	17		w	W	end of text block
CAN	24	18		x	X	cancel
EM	25	19		y	Y	end of medium
SUB	26	1A		z	Z	start subroutine
ESC	27	1B	Escape	[* { *		escape
FS	28	1C		\ * *		file separator
GS	29	1D] * } *		group separator
RS	30	1E			^	record separator
US	31	1F			_ *	unit separator
SP	32	20	Space Bar			space
!	33	21				
"	34	22				
#	35	23				
\$	36	24				
%	37	25				
&	38	26				
'	39	27				
(40	28				
)	41	29				
*	42	2A				
+	43	2B				
,	44	2C				
-	45	2D				
/	47	2F				
0	48	30				
1	49	31				
2	50	32				
3	51	33				
4	42	34				
5	43	35				
6	44	36				
7	45	37				
8	46	38				
9	57	39				
:	58	3A				
;	59	3B				
<	60	3C				
=	61	3D				
>	62	3E				
?	63	3F				
@	64	40				
A	65	41				
B	66	42				
C	67	43				
D	68	44				

E	69	45
F	70	46
G	71	47
H	72	48
I	73	49
J	74	4A
K	75	4B
L	76	4C
M	77	4D
N	78	4E
O	79	4F
P	80	50
Q	81	51
R	82	52
S	83	53
T	84	54
U	85	55
V	86	56
W	87	57
X	88	58
Y	89	59
Z	90	5A
[*	91	5B
\ *	92	5C
] *	93	5D
^	94	5E
- *	95	5F
` *	96	60
a	97	61
b	98	62
c	99	63
d	100	64
e	101	65
f	102	66
g	103	67
h	104	68
i	105	69
j	106	6A
k	107	6B
l	108	6C
m	109	6D
n	110	6E
o	111	6F
p	112	70
q	113	71
r	114	72
s	115	73
t	116	74
u	117	75
v	118	76
w	119	77
x	120	78
y	121	79

```
z      122   7A
{ * 123   7B
| * 124   7C
} * 125   7D
~ * 126   7E
DEL * 127   7F           Delete
```

* The Apple II and Apple II Plus can't generate
that character from the keyboard.

** Use SHIFT-P.

Apple Technical Communications

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